

PHD IN MATERIALS SCIENCE (2018-19)

Código: E007	Fecha de aprobación: 12/06/2014	Precio: 300 € por curso académico
Créditos: Not defined	Título: Doctorate (ECTS)	

RAMA

Not defined

PLAN

PHD IN MATERIALS SCIENCE

TIPO DE ENSEÑANZA

Not defined

CENTROS DONDE SE IMPARTE

Doctoral School

ESTUDIO IMPARTIDO CONJUNTAMENTE CON

Solo se imparte en esta universidad

FECHAS DE EXAMEN

[Acceda al listado de fechas de examen para esta titulación.](#)

PLAN DE ESTUDIOS OFERTADO EN EL CURSO 2018-19

Leyenda: No ofertada Sin docencia

ÚNICO

TESIS DOCTORAL

1 créditos

Curso	Título	Créditos	Subject
-	THESIS	0	66666 - THE DOCTORAL THESIS

COMPLEMENTS FORMATIUS

Curso	Título	Créditos	Subject
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	6	35803 - CHARACTERISATION TECHNIQUES I: X-RAY SCATTERING, NEUTRON AND ELECTRON MICROSCOPY
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	6	35804 - CHARACTERISATION TECHNIQUES II: SPECTROSCOPY AND SURFACE TECHNIQUES
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	6	35805 - PHYSICAL CHEMISTRY OF SURFACES
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35807 - INTRODUCTION TO THE SCIENCE AND TECHNOLOGY OF CARBON MATERIALS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35808 - APPLICATIONS OF CARBON MATERIALS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35810 - FUNDAMENTALS OF ADSORPTION AND CATALYSIS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35811 - HETEROGENEOUS CATALYSIS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35812 - TRANSIENT TECHNIQUES APPLIED TO THE STUDY OF SOLID-GAS INTERACTIONS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35813 - THERMAL ANALYSIS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35816 - IN SITU VIBRATIONAL SPECTROSCOPY FOR THE CHARACTERISATION OF INTERFACES
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35817 - MAGNETIC AND SUPERCONDUCTOR MATERIALS: PHENOMENOLOGY AND FUNDAMENTALS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35820 - SEMICONDUCTORS: FUNDAMENTALS AND DEVICES
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35821 - COMPOSITE MATERIALS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35822 - CONDUCTIVE POLYMERS: FUNDAMENTALS AND APPLICATIONS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35823 - MATERIALS FOR ENVIRONMENTAL AND ENERGY APPLICATIONS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35824 - ANALYTICAL METHODS FOR POLYMERIC MATERIALS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35826 - POLYMER SCIENCE
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35827 - SURFACE ELECTROCHEMISTRY
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35828 - ELECTROCHEMISTRY OF SEMICONDUCTOR MATERIALS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35829 - ELECTROCATALYSIS, ELECTROCATALYTIC MATERIALS AND APPLICATIONS IN ELECTROCHEMISTRY
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35830 - CORROSION AND PROTECTION
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35831 - MODELLING IN MATERIALS SCIENCE: INTRODUCTION TO ATOMIC SIMULATION AND MONTE CARLO METHODS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35833 - COMPUTATIONAL DETERMINATION OF MOLECULAR STRUCTURES
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35834 - INTRODUCTION TO DENSITY FUNCTIONAL THEORY
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35835 - NUMERICAL CALCULATION TECHNIQUES APPLIED TO PHYSICS AND CHEMISTRY
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35836 - NEW MATERIALS AND NANOMATERIALS IN CHEMICAL ANALYSIS
-	COMPLEMENTOS DE FORMACIÓN EN INVESTIGACIÓN	3	35837 - ADHESION AND UNION PROCESSES OF MATERIALS

Superado este bloque se obtiene
DOCTOR BY THE UNIVERSITY OF ALICANTE

CONTACT INFORMATION

[Phd in Materials Science](#)

Academic Commission:

Coordinator: [DIEGO CAZORLA AMORÓS](#)

Secretary: [M^a DEL CARMEN ROMÁN MARTÍNEZ](#)

Proposing body:

[University Institute of Materials](#)

iuma@ua.es ciencia.materiales@ua.es

Doctoral School:

[EDUA-Doctoral School of the University of Alicante](#)

Germán Bernácer building, ground floor.

Telephone number 965 90 3466

[Contact EDUA](#)

BASIC AND GENERAL COMPETENCES

BASIC

- CB11 - Systematic comprehension of a field of study and mastery of the skills and research methods related to said field.
- CB12 - Ability to conceive, design or create, put into practice and adopt a substantial research or creation process.
- CB13 - Ability to contribute to the expansion of knowledge barriers through original research.
- CB14 - Ability to carry out a critical and evaluative analysis and synthesize new and complex ideas.
- CB15 - Ability to communicate with the academic and scientific community as well as society in general regarding your fields of knowledge in the modes and languages used normally in your international scientific community.
- CB16 - Ability to foment scientific, technological, social, artistic or cultural advances within a knowledge-based society in academic and professional contexts.

PERSONAL SKILLS AND ABILITIES

- CA01 - To cope with contexts in which there is little specific information.
- CA02 - To find the key questions that must be answered to solve a complex problem.
- CA03 - To design, create, develop and carry out innovating projects in your field of knowledge.
- CA04 - To be able to work as a team and as an individual in an international and multidisciplinary context.
- CA05 - To process knowledge, cope with complexity and formulate judgements with limited information.
- CA06 - To criticise and defend solutions intellectually.

COMMON COMPULSORY TRANSVERSAL TRAINING ACTIVITIES

All students will have to do a series of transversal activities; some are common to all doctoral programs whereas others are specific to each individual program.

Classes are structured into two sessions and will be taught in a computer room (indicated when necessary) during the afternoon schedule with the goal of making it easier for both, full-time and part-time students to attend.

The vehicular languages will be Spanish and Valencian.

The activities are the following:

- ACTIVITY 1: Tools for the management and recovery of information.
- ACTIVITY 2: Goals and objectives of research
- ACTIVITY 3: Scientific communication models
- ACTIVITY 4: Transfer of knowledge models

For more information check the [Doctoral School's webpage](#).

SPECIFIC COMPULSORY TRANSVERSAL TRAINING ACTIVITIES

The activities are the following:

- ACTIVITY 1: Seminars related to the doctoral programme's topic
- ACTIVITY 2: Seminars for doctoral students
- ACTIVITY 3: Attendance to scientific meetings
- ACTIVITY 4: Mobility

OPTIONAL TRANSVERSAL TRAINING ACTIVITY

The activities are the following:

- ACTIVITY 1: Stays at Universities and Higher Research Centres.

For more information contact the proposing body. [University Institute of Materials](#).

RESEARCH AREAS

1. Rubber adhesives and adhesion phenomena
2. Heterogeneous catalysis
3. Environmental decontamination
4. Electrochemistry: New materials
5. Semiconductor electrochemistry
6. Surfaces electrochemistry and electrocatalysis
7. Spectroelectrochemistry and modelling
8. Statistical physics and physics of condensed matter
9. Interaction of particles charged with matter
10. Carbon materials
11. Composite materials
12. Polymeric materials
13. Novel Nanoparticle-based Analytical Techniques
14. Electrochemical processes
15. Quantum and computational chemistry
16. Adsorbent solids
17. Analytical techniques for Materials Characterization
18. Smart Polymeric Materials
19. Adhesives for medical use
20. Organics Electronics and Photonics

ADMISSION

- First of all, the person concerned will have to fill in the pre-enrolment form and afterwards, contact the body responsible for the doctoral program in order for them to transmit your desire to enrol to the corresponding Academic Commission (AC).
- Once the information has been received, the AC will consider the documentation presented through the pre-enrolment form.
- If the person is admitted, the corresponding admission certificate will be issued and sent to the Doctoral School.
- If the application is rejected, an admission certificate will be issued which explains the reasons. This certificate will be sent to the Doctoral School which will then inform the person concerned.

ACCESS

- Once the favourable admission certificate sent by the AC has been received by the Doctoral School, the process to analyse access requirements will begin. If the access degree does not belong to the EHEA (European Higher Education Area), the student will have to pay a fee for the analysis of their documentation.
- If the requirements are met, an academic record will be opened so that the person concerned can fill in their registration.
- If the requirements are not met, the refusal of access and reasons will be communicated. If the person concerned were to hand in the requested documents, the Doctoral School will proceed to open an academic record so that the student can fill in the registration. Otherwise, the record will be archived without further processing.

Registered in the Record of Universities, Centres and Degrees (RUCT)

Authorization Comunidad Valenciana: 28/03/2014

Published BOE 12/06/2014

REGULATION

Royal Decree 99/2011, January 28, which regulates official doctoral degrees ([Official State bulletin number 35. February 10 2011](#))

[Verified Report](#)

[Resolution from the Universities Council: Positive verification](#)

Resolution from the Universities Council: Accreditation renewal

[Authorization from the Valencian Government](#)

INTERNAL QUALITY ASSURANCE SYSTEM (SGIC) OF THE DEGREE

- [Structure of the Centre for Quality](#)
 - [Comission of Internal Quality Guarantee](#)
 - [Other Commissions](#)
- [SGIC Handbook](#)
- [Procedures](#)
 - [Strategic \(PE\)](#)
 - [Key \(PC\)](#)
 - [Support \(PA\)](#)
 - [Measurement \(PM\)](#)

[Management of the SGIC \(Acces to ASTUA\)](#) 

DEGREE MONITORING

- [Self-reports UA](#)
- [AVAP External reports](#)
- [Other reports](#)
- [Improvement plans](#)
- [Progress and learning outcomes](#)